

L5 ANSWER 1 OF 1 DGENE (C) 2002 THOMSON DERWENT

## Full Text

AN **AAA63884** cDNA DGENE

TI Recombinant polynucleotide molecule for generating pyridine resistant transgenic plants, comprises plant functional promoter operably linked to polynucleotide sequence encoding esterase -

IN Feng P C C; Ruff T G

PA (MONS) MONSANTO CO.

PI US---6107549 A 20000822 31p

AI 1999US-0264737 19990309

PRAI 1998US-0077377 19980310

PSL Claim 19; Fig 7A-B

DED 04 DEC 2000 (first entry)

DT Patent

LA English

OS 2000-578555 [54]

CR P-PSDB: AAB08202

DESC cDNA encoding a rabbit liver esterase 3 designated RLE-3.

KW Rabbit; liver; esterase; RLE-3; pyridine herbicide; pyridine resistant plant; herbicide tolerance; herbicide resistance; ss.

ORGN Oryctolagus cuniculus.

AB The present sequence encodes a rabbit liver esterase, designated RLE-3. The esterase catalyses the hydrolysis of a pyridine herbicide compound. The esterase is linked to a plant functional promoter and a 3' non-translated region that functions in plant cells to cause the polyadenylation of the 3' end of the RNA molecule produced by promoter. The esterase construct is useful for production of pyridine resistant transgenic plant. The esterase construct is also useful for genetic manipulation of plants and confers herbicide tolerance and herbicide resistance to the plants.

NA 433 A; 437 C; 455 G; 376 T; 0 other

SQL 1701

SEQ

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151 ttcctgggag tccccttcgc caagccccct cttggatccc tgaggtttgc
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451 tcaacctatg atggcctggc tctttctgcc catgagaacg tgggtggtgt
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1051 aaccagcaag agtttggtcg gattatccca atgcaaatgc tgggctatcc
1101 actctctgaa ggcaaaactgg accagaagac agctacagaa ctcttggtga
1151 agtcctaccc cattgtcaat gtctctaagg agctgactcc agtggccact
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1251 cctggacatg cttgcagatt tgttatttgg tgtcccatct gtgaatgtgg

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## STN Columbus

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1651 tgggccaagg aggcagcaag gccacgtgag actgaacaca tcgagctgta  
1701 g

## FEATURE TABLE:

Key	Location	Qualifier
CDS	1..1701	*tag= a
		product  "esterase RLE-3"